

Date _____

IRRIGATION SYSTEM DESIGN WORK SHEET

(Attach copy to leveling sheet)

Cooperator's Name _____ Field No. _____ Size _____
(From Cons. Plan)

I. DESIGN INFORMATION

Soil-Series & Type or Mapping Symbol (In descending order of importance)	Cut Limit	Intake Rate in./hr.	Waterholding Capacity					
			1	2	3	4	5	6

Planned Crops _____ Peak daily c.u. _____ Peak Irrig. Freq. _____
 Planned Crops _____ Peak daily c.u. _____ Peak Irrig. Freq. _____
 Available Stream Size _____ CFS

Remarks:

II. IRRIGATION DESIGN

Slope _____ Side Slope _____
 Ditch Depth _____ in. Top height above field _____ in.
 Diameter of Ports _____ No. of Ports per Border _____

A. BORDER IRRIGATION				Planned Crops:			
1. Net Application, inches							
2. Design Intake Rate, in./hr. of soil after leveling							
3. Gross Application @ _____ % Efficiency							
4. Unit Stream, CFS							
5. Length of Run, ft.							
6. Border Width, ft.							
7. Border Area, acres							
8. Application Time, hours							
9. Borders per Set							
10. Depth of Flow							
11. Border Height Required							
B. FURROW IRRIGATION							
12. Net Application							
13. Design Intake Rate, gpm/100' of run of soil after leveling							
14. Non-erosive Stream							
15. Length of Run							
16. Application Time							